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TEST REPORT OF FINE AGGREGATE

Date: 22-06-18

Lab ID	:	**CP-2018-06-18-12**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC road prashantha nagara 4th Cross near S Ramesh road at Dasarahalli in Ward No-15
Agency	:	Sri. Naveen. J, No. U-1/2, 11th Cross, 1st Main, 2nd Railway Gate, K P Agrahara, Bhuvaneshwari nagar, Bengaluru-560023.
Customer's Reference	:	EE/DD/WO/254/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-18
Sample ID No	:	2018-06-18-12 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-06-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	129	186	18.6	81.4	60-95	75-100	85-100	95-100
4	1.18 mm	219	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	203	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	179	787	78.7	21.3	5-20	8-30	12-40	15-50
7	150 micron	149	936	93.6	6.4	0-10	0-10	0-10	0-15
8	Pan	64	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/07/2018

Lab ID	:	**CP-2018-07-02-11**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC road prashantha nagara 4th Cross near S Ramesh road at Dasarahalli in Ward No-15
Agency	:	Sri. Naveen. J, No. U-1/2, 11th Cross, 1st Main, 2nd Railway Gate, K P Agrahara, Bhuvaneshwari nagar, Bengaluru-560023.
Customer's Reference	:	EE/DD/WO/254/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-07-18
Sample ID No	:	2018-07-02-11 /05
Customer ID	:	C C Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	30/06/2018	07/07/2018	149.80 X 149.09 X 150.43	22335	8.404	524.3	23.5	24.3
2	C C Pavement	M30	30/06/2018	07/07/2018	150.36 X 149.77 X 150.57	22520	8.357	556.2	24.7	
3	C C Pavement	M30	30/06/2018	07/07/2018	149.41 X 150.57 X 151.99	22498	8.481	558.7	24.8	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-07-02-11** **Date: 28/07/2018**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC road prashantha nagara 4th Cross near S Ramesh road at Dasarahalli in Ward No-15
Agency	:	Sri. Naveen. J, No. U-1/2, 11th Cross, 1st Main, 2nd Railway Gate, K P Agrahara, Bhuvaneshwari nagar, Bengaluru-560023.
Customer's Reference	:	EE/DD/WO/254/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-07-02-11 /06
Customer ID	:	C C Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	30/06/2018	28/07/2018	149.73 X 149.40 X 150.71	22369	8.328	677.1	30.3	32.1
2	C C Pavement	M30	30/06/2018	28/07/2018	150.32 X 149.34 X 150.90	22448	8.067	741.4	33.0	
3	C C Pavement	M30	30/06/2018	28/07/2018	150.72 X 151.24 X 150.84	22795	8.169	753.2	33.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-02-11** **Date: 07/07/2018**

Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.

Address : T-Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Providing and Construction of CC road prashantha nagara 4th Cross near S Ramesh road at Dasarahalli in Ward No-15

Agency : Sri. Naveen. J, No. U-1/2, 11th Cross, 1st Main, 2nd Railway Gate, K P Agrahara, Bhuvaneshwari nagar, Bengaluru-560023.

Customer's Reference : EE/DD/WO/254/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-07-18

Sample ID No : 2018-07-02-11 /01

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	30/06/2018	07/07/2018	151.35 X 151.02 X 151.59	22856	8.058	585.1	25.6	24.5
2	C C Pavement	M30	30/06/2018	07/07/2018	149.17 X 151.40 X 151.10	22584	8.298	532.0	23.6	
3	C C Pavement	M30	30/06/2018	07/07/2018	150.14 X 149.19 X 150.66	22399	8.502	546.0	24.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-02-11** **Date: 28/07/2018**

Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.

Address : T-Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Providing and Construction of CC road prashantha nagara 4th Cross near S Ramesh road at Dasarahalli in Ward No-15

Agency : Sri. Naveen. J, No. U-1/2, 11th Cross, 1st Main, 2nd Railway Gate, K P Agrahara, Bhuvaneshwari nagar, Bengaluru-560023.

Customer's Reference : EE/DD/WO/254/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-03-18

Sample ID No : 2018-07-02-11 /02

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	30/06/2018	28/07/2018	151.07 X 151.62 X 151.19	22907	8.209	767.1	33.5	31.6
2	C C Pavement	M30	30/06/2018	28/07/2018	151.70 X 149.24 X 150.53	22640	8.231	701.8	31.0	
3	C C Pavement	M30	30/06/2018	28/07/2018	150.35 X 150.08 X 151.16	22565	8.008	685.3	30.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-07-02-11** **Date: 07/07/2018**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC road prashantha nagara 4th Cross near S Ramesh road at Dasarahalli in Ward No-15
Agency	:	Sri. Naveen. J, No. U-1/2, 11th Cross, 1st Main, 2nd Railway Gate, K P Agrahara, Bhuvaneshwari nagar, Bengaluru-560023.
Customer's Reference	:	EE/DD/WO/254/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-07-18
Sample ID No	:	2018-07-02-11 /03
Customer ID	:	C C Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	30/06/2018	07/07/2018	149.43 X 151.32 X 151.68	22612	8.408	525.7	23.2	24.2
2	C C Pavement	M30	30/06/2018	07/07/2018	150.30 X 149.58 X 150.31	22481	8.002	567.2	25.2	
3	C C Pavement	M30	30/06/2018	07/07/2018	149.72 X 151.02 X 151.28	22611	8.177	548.8	24.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/07/2018

Lab ID	:	CP-2018-07-02-11
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC road prashantha nagara 4th Cross near S Ramesh road at Dasarahalli in Ward No-15
Agency	:	Sri. Naveen. J, No. U-1/2, 11th Cross, 1st Main, 2nd Railway Gate, K P Agrahara, Bhuvaneshwari nagar, Bengaluru-560023.
Customer's Reference	:	EE/DD/WO/254/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-07-02-11 /04
Customer ID	:	C C Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	30/06/2018	28/07/2018	151.44 X 149.96 X 151.71	22711	8.484	771.4	34.0	32.6
2	C C Pavement	M30	30/06/2018	28/07/2018	150.54 X 149.67 X 151.29	22532	8.427	741.4	32.9	
3	C C Pavement	M30	30/06/2018	28/07/2018	149.95 X 150.79 X 151.32	22611	7.961	702.1	31.1	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-06-18-12** **Date: 22-06-18**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC road prashantha nagara 4th Cross near S Ramesh road at Dasarahalli in Ward No-15
Agency	:	Sri. Naveen. J, No. U-1/2, 11th Cross, 1st Main, 2nd Railway Gate, K P Agrahara, Bhuvaneshwari nagar, Bengaluru-560023.
Customer's Reference	:	EE/DD/WO/254/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-18
Sample ID No	:	2018-06-18-12 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-06-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.12	–
2	Finess by Air permeablity method (m^2/kg,Min)	297.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-18-12** **Date: 22-06-18**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC road prashantha nagara 4th Cross near S Ramesh road at Dasarahalli in Ward No-15
Agency	:	Sri. Naveen. J, No. U-1/2, 11th Cross, 1st Main, 2nd Railway Gate, K P Agrahara, Bhuvaneshwari nagar, Bengaluru-560023.
Customer's Reference	:	EE/DD/WO/254/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-06-18
Sample ID No	:	2018-06-18-12 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-06-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	385	385	2.6	97.4	90-100
3	20 mm	7048	7433	49.6	50.4	30-70
4	10 mm	4396	11829	78.9	21.1	10-35
5	4.75 mm	2845	14674	97.8	2.2	0-5
6	Pan	326	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-18-12** **Date: 22-06-18**

Sample ID No : 2018-06-18-12 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.23	–

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Samples will be disposed after 90 days from the date of issue of test certificate

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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